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(54) POROUS ALUMINUM OXIDE MEMBRANE

(57)Abstract:

PURPOSE: To obtain an Al-membrane for an ultrafiltration membrane rich in solvent resistance and heat resistance and showing sharp fractional capacity, by forming an aluminum oxide layer to the surface of metal aluminum by applying electrolysis to metal aluminum in an anodic oxidizing electrolyte.

CONSTITUTION: As aluminum being a stock material, metal aluminum or an alloy, which consists of aluminum and a metal such as Si, Fe, Mn, Mg, Cu, Zn, Cr, Ni, Ti or Pd, is used in a thickness of several thousand Å. This metal aluminum or alloy is used as an anode and electrolyzed in a solution of an electrolyte capable of forming a porous aluminum oxide film such as sulfuric acid, oxalic acid, phosphoric acid or chromic acid. Electrolytic voltage is several W80V. Next, the non-oxidized metal and the aluminum oxide barrier layer are removed by etching according to a proper method to obtain an aluminum oxide ultrafiltration membrane with a thickness of 1W200μm.

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